

IN THE UNITED STATES DISTRICT COURT  
FOR THE NORTHERN DISTRICT OF ILLINOIS  
EASTERN DIVISION

DOCKETED  
DEC 31 1980

BALLY MANUFACTURING CORPORATION,

Plaintiff,

vs.

D. GOTTLIEB & CO., WILLIAMS  
ELECTRONICS, INC.,  
ROCKWELL INTERNATIONAL CORPORATION,  
and GAME PLAN, INCORPORATED,

Defendants.

Civil Action

No. 80-C-5048

U.S. DISTRICT COURT

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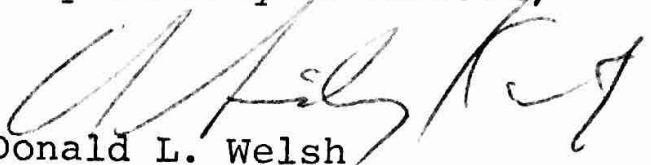
SUPPLEMENTAL MEMORANDUM OF PLAINTIFF IN OPPOSITION  
TO DEFENDANT ROCKWELL INTERNATIONAL CORPORATION'S  
MOTION TO DISMISS

This paper is a supplement to the "Memorandum of Plaintiff in Opposition to Defendant Rockwell International Corporation's Motion to Dismiss" filed in the above-captioned case on December 19, 1980. In Plaintiff's original memorandum on pages 12 and 13 it was asserted that the patent in suit was directed to a solid-state pinball machine having a certain type of control and display circuit, but a copy of the patent in suit, U.S. Patent No. 4,198,051, issued April 15, 1980, was not of record in this case. Therefore, plaintiff submits herewith a copy of the patent in suit.

It is pointed out that the claims, which define the invention covered by the patent, are contained on the last two pages of the patent in columns 69 through 72. An examination

of the claims unquestionably shows that the patent is directed to solid-state pinball machines having certain type of control and display circuits, and it is the control and display circuits which Rockwell makes and sells to Gottlieb for use in the pinball machines which are the subject of this lawsuit.

Respectfully submitted,



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December 30, 1980

[54] COMPUTERIZED PIN BALL MACHINE

[75] Inventors: Marion F. Bracha, Chicago; William H. Englehardt, Skokie, both of Ill.

[73] Assignee: Bally Manufacturing Corporation, Chicago, Ill.

[21] Appl. No.: 633,470

[22] Filed: Nov. 19, 1975

[51] Int. Cl.<sup>2</sup> ..... A63F 7/00

[52] U.S. Cl. .... 273/121 A

[58] Field of Search ..... 273/1 E, 85 R, 54 C, 273/118 A, 119 A, 121 A, 122 A, 125 A, 126 A, DIG. 28; 235/1 B, 92 GA, 156; 445/1; 340/172.5, 323, 337

[56] References Cited

U.S. PATENT DOCUMENTS

2,806,701	9/1957	Durant .....	273/125 A X
3,703,288	11/1972	Vogel et al. ....	273/126 A X
3,874,669	4/1975	Ariano .....	273/DIG. 28
3,889,956	6/1975	Castile .....	273/1 E X
3,907,290	9/1975	Fischer et al. ....	235/92 GA X
3,973,257	8/1976	Lovercheck et al. ....	364/200
4,008,893	2/1977	Yoseloff .....	273/85 R
4,026,555	5/1977	Kirschner et al. ....	273/102.2 B X
4,069,510	1/1978	Carlow et al. ....	364/200
4,093,232	6/1978	Nutting et al. ....	273/121 A

OTHER PUBLICATIONS

*MCS-4 TM Microcomputer Set Users Manual*; Intel Corporation; Jan. 1972; pp. 44-47, 54-58, 60, 61.  
*Electronics*; "Shrinking Cost, Growing Reliability Make More Things Happen," Oct. 25, 1973; pp. 71-105.  
*Electronics*; "Microcomputers Muscle in," Mar. 1, 1973; pp. 63-64.  
*EE/Systems Engineering Today*; "Electronics Plays the Pins," Nov. 1973; pp. 37-41.  
*Electronic Design*; "Ease Multiplexing and A/D Conversion," Apr. 12, 1973; pp. 84-89.  
*Process, Instruments and Controls Handbook*; McGraw-Hill; 1957; pp. 8-34, to 8-47.  
*Electronics*; "Scamp Microprocessor Aims to Replace Mechanical Logic," Sept. 18, 1975; pp. 81-87.  
*Popular Electronics*; "Altair 8800 Minicomputer, Part I," Jan. 1975; pp. 33-38.

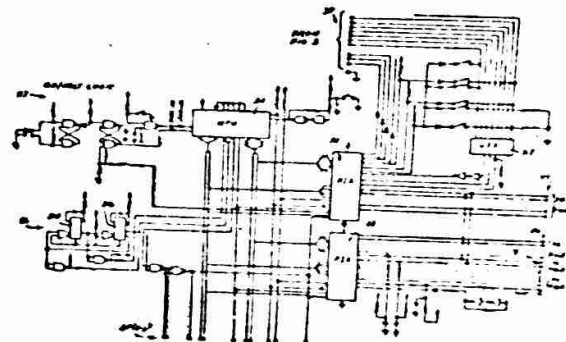
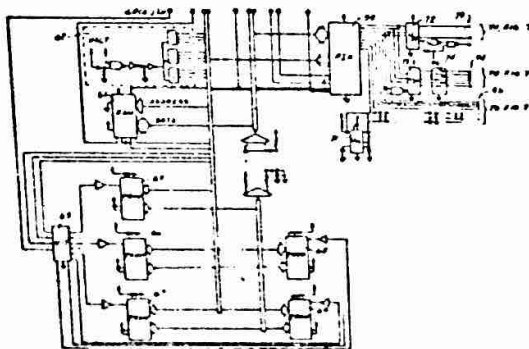
Primary Examiner—Vance Y. Hum

Attorney, Agent, or Firm—Fitch, Even & Tabin

[57] ABSTRACT

A pin ball machine which incorporates a micro processor instead of relays and hard wiring wherein the processor is programmed such that when the coin switches, the flipper switches and the various scoring switches of the machine are energized the computer accumulates and drives indicators to indicate the score as well as drives the flippers, the sling shots and other units of the playfield to provide an improved machine.

22 Claims, 32 Drawing Figures



Although this invention has been described with respect to preferred embodiments, it is not to be so limited as changes and modifications may be made which are within the full intended scope as defined by the appended claims.

00100		NAM	FOURTH	
00110		OPT	DB16, MEM, SYMBOL	
01001		* F R O N T		
01002		*RAM LABEL ASSIGNMENTS		
01005	005A	BEGSTK EQU	90	LOAD ADDR. FOR BEGIN STACK.
01010	0048	RESRAM EQU	BEGSTK-18	STRT.RESV.RAM AREA
01015		*STARTING AREA		
01035		*PIA LABEL ASSINGMENTS		
01040	0034	PIA1DA EQU	\$84	
01045	0035	PIA1CA EQU	PIA1DA+1	
01050	0086	PIA1DB EQU	PIA1DA+2	
01055	0087	PIA1CB EQU	PIA1DA+3	
01060	0088	PIA2DA EQU	\$88	
01065	0089	PIA2CA EQU	PIA2DA+1	
01070	008A	PIA2DB EQU	PIA2DA+2	
01075	008B	PIA2CB EQU	PIA2DA+3	
01079	0090	PIA3DA EQU	\$90	
01080	0091	PIA3CA EQU	PIA3DA+1	
01081	0092	PIA3DB EQU	PIA3DA+2	
01082	0093	PIA3CB EQU	PIA3DA+3	
01033		*ROM LABEL ASSIGNMENTS		
01035	0800	BEGROM EQU	\$0800	
01090		*LAMP SYMBOL ASSIGNMENTS		
01095	0000	DRLPA0 EQU	%00000000	A TARGET OFF
01100	0080	DRLPA1 EQU	%10000000	A TARGET ON
01105	0001	DRLPB0 EQU	%00000001	B TARGET OFF
01110	0081	DRLPB1 EQU	%10000001	B TARGET ON
01115	0002	DRLPC0 EQU	%00000010	C TARGET OFF
01120	0082	DRLPC1 EQU	%10000010	C TARGET ON
01125	0003	DRLPD0 EQU	%00000011	D TARGET OFF
01130	0083	DRLPD1 EQU	%10000011	D TARGET ON
01135	0004	RVLPA0 EQU	%00000100	A ROLLOVER OFF